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### NOTICE OF ALLOWANCE AND FEE(S) DUE

31554

7590

09/17/2009

CARTER, DELUCA, FARRELL & SCHMIDT, LLP 445 BROAD HOLLOW ROAD SUITE 420 MELVILLE, NY 11747

EXAMINER					
CHIN, HUI H					
ART UNIT	PAPER NUMBER				
1706					

DATE MAILED: 09/17/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/570,553	03/03/2006	Benjamin Chu	R-7695 (1339-5 PCT US)	9958

TITLE OF INVENTION: NANOCOMPOSITE FIBERS AND FILM CONTAINING POLYOLEFIN AND SURFACE-MODIFIED CARBON

NANOTUBES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee	(s) Transmittal, This	s certifi	icate cannot be used t	or domestic mailings of the for any other accompanying ent or formal drawing, must
31554 7590 09/17/2009			have	e its own certificate	of mai	ling or transmission.	ent or formal drawing, must
CARTER, DEI 445 BROAD HO SUITE 420	LUCA, FARRELL DLLOW ROAD	L & SCHMIDT, LI	Stat	reby certify that thi	s Fee(s	of Mailing or Trans s) Transmittal is being ficient postage for fir ISSUE FEE address 1) 273-2885, on the d	emission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
MELVILLE, NY	( 11747						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/570,553	03/03/2006		Benjamin Chu		R-7695	5 (1339-5 PCT US)	9958
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nonprovisional	YES	\$755	\$300	\$0		\$1055	12/17/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	J			
CHIN,	HUI H	1796	524-236000				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> <li>ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON</li> </ol>		or agents OR, alternation (2) the name of a single registered attorney or a 2 registered patent attored listed, no name will be	e name of a single firm (having as a member a ered attorney or agent) and the names of up to stered patent attorneys or agents. If no name is no name will be printed.				
PLEASE NOTE: Unl	ess an assignee is identi h in 37 CFR 3.11. Comp GNEE	fied below, no assignee letion of this form is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. 'and STATE OR C	OUNT	RY)	ocument has been filed for
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	s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no Ion				
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Authorized Signature				Date			
Typed or printed name				Registration No.			
an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 displication form to the ons for reducing this bur firginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	timated to take 12 n ridual case. Any corer, U.S. Patent and 1	ninutes mment: Fradem	to complete, including on the amount of times. U.S. Den	d by the USPTO to process ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450.

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CARTER, DELUCA, FARRELL & SCHMIDT, LLP		CHIN, HUI H		
445 BROAD HOL	LOW ROAD		ART UNIT	PAPER NUMBER
SUITE 420 MELVILLE, NY 11747			1796 DATE MAILED; 09/17/200	9

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 524 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 524 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/570,553	CHU ET AL.
Notice of Allowability	Examiner	Art Unit
	HUI CHIN	1796
The MAILING DATE of this communication apportant All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. <b>THIS</b>
2. The allowed claim(s) is/are <u>1-5,7-11 and 32-40</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review ( PTO-	948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	's Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<ul><li>5. ☐ Notice of Informal F</li><li>6. ☐ Interview Summary</li></ul>	(PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da 7.	te
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
/Ling-Siu Choi/ Primary Examiner, Art Unit 1796		

Application/Control Number: 10/570,553 Page 2

Art Unit: 1796

### **DETAILED ACTION**

1. This Office Action is in response to the Amendment filed 8/20/2009. Claims 1 and 7 have been amended. Claims 6 and 12-31 have been canceled and claims 32-40 have been added. Claims 1-5, 7-11, and 32-40 are now pending.

# Allowable Subject Matter

- 2. Claims 1-5, 7-11, and 32-40 are allowed.
- The following is an examiner's statement of reasons for allowance:
   The present claims are allowable over the closest reference: <u>Sun et al.</u> (US 2003/0001141).

Sun et al. disclose a nanocomposite comprising a mixture of carbon nanotubes and an electron donor compound; an electron emitting element; and an organic polymer such as polyolefins, wherein the electron donor compound consists of <a href="mailto:amino group">amino group</a>. However, <a href="Sun et al.">Sun et al.</a> do not disclose the amount of nanotube to be used.

Thus, <u>Sun et al.</u> do not teach or fairly suggest the nanocomposite comprising: about 70 wt % to about 99.99 wt % of at least one polyolefin; and about <u>0.01 wt % to about 30 wt % of at least one modified carbon nanotube</u>, wherein the modified carbon nanotube has been functionalized with at least one modifier comprising an alkene.

In light of the above discussion, it is evident as to why the present claims are

patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HUI CHIN whose telephone number is (571)270-7350.

The examiner can normally be reached on Monday to Friday; 8:00am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

/Ling-Siu Choi/

Primary Examiner, Art Unit 1796

/HC/